FEBS Letters 354 (1994) 329–331

Contents to volume 354

Minireviews

Families of zinc metalloproteases (FEBS 14692) *N.M. Hooper* 1
The lipocalin protein family: a role in cell regulation (FEBS 14691) *D.R. Flower* 7

Research Letters

Transfection of cells with *transforming growth factor*-α leads to cellular resistance to the antiproliferative effects of tumor necrosis factor (FEBS 14686) *B.B. Aggarwal, E. Pocsik, F. Ali-Osman, K. Totpal* 12
Nonsense mutations in the *vpr* gene of HIV-1 during in vitro virus passage and in HIV-1 carrier-derived peripheral blood mononuclear cells (FEBS 14687) *T. Nakaya, K. Fujinaga, M. Kishi, S. Oka, T. Kurata, I.M. Jones, K. Ikuta* 17
Specificities of the two center N inhibitors of mitochondial bc_1 complex, antimycin and funiculosin: strong involvement of cytochrome *b*–asparagine-208 in funiculosin binding (FEBS 14690) *G. Brasseur, P. Brivet-Chevillotte* 23
Transcription of rat mitochondrial NADH-dehydrogenase subunits: Presence of antisense and precursor RNA species (FEBS 14693) *A. Tullo, F. Tanzariello, A.M. D'Erchia, M. Nardelli, P.A. Papeo, E. Sbisà, C. Saccone* 30
A cryoelectron microscopy study of the interaction of the *Escherichia coli* F_1-ATPase with subunit *b* dimer (FEBS 14672) *S. Wilkens, S.D. Dunn, R.A. Capaldi* 37
A proposed structure for 'Family 18' chitinases: A possible function for narbonin (FEBS 14697) *A.F.W. Coulson* 41
Predicted secondary structure of the 20 S proteasome and model structure of the putative peptide channel (FEBS 14695) *A. Lupas, A.J. Koster, J. Walz, W. Baumeister* 45
Degradation of the yeast MATα2 transcriptional regulator is mediated by the proteasome (FEBS 14698) *B. Richter-Ruoff, D.H. Wolf, M. Hochstrasser* 50
Nucleotide receptors in hepatic stellate cells of the rat (FEBS 14703) *S. Takemura, N. Kawada, K. Hirohashi, H. Kinoshita, M. Inoue* 53
Processing and secretion of rat α_1-microglobulin-bikunin expressed in eukaryotic cell lines (FEBS 14700) *T. Bratt, T. Cedervall, B. Åkerström* 57
Identification of two *ets* related genes in a marine worm, the polychaete annelid *Nereis diversicolor* (FEBS 14704) *A. Lelièvre-Chotteau, V. Laudet, A. Flourens, A. Bègue, D. Leprince, F. Fontaine* 62
Multiple receptor-like protein tyrosine phosphatases in the form of chondroitin sulfate proteoglycan (FEBS 14706) *N. Maeda, H. Hamanaka, T. Shintani, T. Nishiwaki, M. Noda* 67
The oxygenase reaction of acetolactate synthase detected by chemiluminescence (FEBS 14710) *J. Durner, V. Gailus, P. Böger* 71
RNA/DNA hybrid duplexes with identical nearest-neighbor base-pairs have identical stability (FEBS 14711) *N. Sugimoto, M. Katoh, S. Nakano, T. Ohmichi, M. Sasaki* 74
Ageing-associated tandem duplications in the D-loop of mitochondrial DNA of human muscle (FEBS 14676) *H.-C. Lee, C.-Y. Pang, H.-S. Hsu, Y.-H. Wei* 79
Antithrombin histidine variants: ^{1}H NMR resonance assignments and functional properties (FEBS 14696) *B. Fan, I.V. Turko, P.G.W. Gettins* 84
DNA binding activity of NtrC from *Rhizobium* grown on different nitrogen sources (FEBS 14707) *E.J. Patriarca, A. Riccio, S. Colonna-Romano, R. Defez, M. Iaccarino* 89
Mutational analysis of Glu^{771} of the Ca^{2+}-ATPase of sarcoplasmic reticulum: Effect of positive charge on dephosphorylation (FEBS 14713) *J.P. Andersen* 93
Pore-forming peptide of *Entamoeba histolytica*: Significance of positively charged amino acid residues for its mode of action (FEBS 14716) *J. Andrä, M. Leippe* 97
Use of a monoclonal antibody to detect DNA damage caused by the anticancer drug *cis*-diamminedichloroplatinum (II) in vivo and in vitro (FEBS 14701) *C.C.-K. Chao, T.-C. Shieh, H. Huang* 103
Expression of type II thyroxine 5′-deiodinase from rat Harderian gland in *Xenopus laevis* oocytes (FEBS 14699) *J.F. Garcia-Macias, P. Molinero, J.M. Guerrero, C. Osuna* 110
L protein, encoded by *psbL*, restores normal functioning of the primary quinone acceptor, Q_A, in isolated D1/D2/CP47/Cytb-559/I photosystem II reaction center core complex (FEBS 14702) *K. Kitamura, S. Ozawa, T. Shiina, Y. Toyoshima* 113
Expression of the sarcoplasmic reticulum Ca^{2+}-ATPase in yeast (FEBS 14717) *F. Centeno, S. Deschamps, A.-M. Lompré, M. Anger, M.-J. Moutin, Y. Dupont, M.G. Palmgren, J.M. Villalba, J.V. Møller, P. Falson, M. le Maire* 117
Characterisation of a complementary DNA encoding a novel plant enzyme with sucrolytic activity (FEBS 14718) *G.C. Machray, L. Burch, P.E. Hedley, H.V. Davies, R. Waugh* 123

Hypothesis

A possible consensus sequence for VPg of viruses in the family *Comoviridae* (FEBS 14705) *M.A. Mayo, C. Fritsch* 129

Research Letters

Similarity of Ca^{2+}-bound conformations of morphine and Met-enkephalin: a computational study (FEBS 14684) *B.S. Zhorov, V.S. Ananthanarayanan* 131
Disparate contributions of Tyr^{10} and Tyr^{109} to fluorescence intensity of rabbit skeletal muscle troponin C identified using a genetically engineered mutant (FEBS 14708) *D. Keleti, V.G. Rao, H. Su, A.B. Akella, X.-L. Ding, J. Gulati* 135
Purification and characterization of the VanB ligase associated with type B vancomycin resistance in *Enterococcus faecalis* V583 (FEBS 14709) *D. Meziane-Cherif, M.-A. Badet-Denisot, S. Evers, P. Courvalin, B. Badet* 140
Conformational study of eight-membered diazocine turn mimics by two-dimensional NMR spectroscopy (FEBS 14719) *J.W. Bean, J. Briand, J.L. Burgess, J.F. Callahan* 143
Monoclonal antibodies distinctively recognizing the subtypes of inositol 1,4,5-trisphosphate receptor: Application to the studies on inflammatory cells (FEBS 14712) *T. Sugiyama, A. Furuya, T. Monkawa, M. Yamamoto-Hino, S. Satoh, K. Ohmori, A. Miyawaki, N. Hanai, K. Mikoshiba, M. Hasegawa* 149
Functional expression of nicotinic acetylcholine receptors containing rat α7 subunits in human SH-SY5Y neuroblastoma cells (FEBS 14721) *E. Puchacz, B. Buisson, D. Bertrand, R.J. Lukas* 155

Identification of amino acid residues associated with the [2Fe-2S] cluster of the 25 kDa (NQO2) subunit of the proton-translocating NADH-quinone oxidoreductase of *Paracoccus denitrificans (FEBS 14720) T. Yano, V.D. Sled, T. Ohnishi, T. Yagi* 160

Thermal recovery of iodopsin from its meta I-intermediate (FEBS 14725) *Y. Imamoto, H. Imai, T. Yoshizawa, Y. Shichida* 165

A synthetic peptide with anti-platelet activity derived from a CDR of an anti-GPIIb-IIIa antibody (FEBS 14726) *A. Jarrin, A. Andrieux, A. Chapel, T. Buchou, G. Marguerie* 169

A delayed rectifier potassium channel cloned from bovine adrenal medulla: Functional analysis after expression in *Xenopus* oocytes and in a neuroblastoma cell line (FEBS 14730) *M. García-Guzmán, F. Sala, M. Criado, S. Sala* 173

PVP-containing solutions for analysis of divalent cation-dependent NMDA responses in *Xenopus* oocytes (FEBS 14731) *M. Raditsch, V. Witzemann* 177

Troponin T is capable of binding dystrophin via a leucine zipper (FEBS 14732) *J.A. Pearlman, P.A. Powaser, S.J. Elledge, C.T. Caskey* 183

Selectivity of DNA polymerases toward α and β nucleotide substrates of D and L series (FEBS 14736) *D.G. Semizarov, L.S. Victorova, N.B. Dyatkina, M. von Janta-Lipinski, A.A. Krayevsky* 187

Immunogold localization of glutathione transferase B1-1 in *Proteus mirabilis* (FEBS 14728) *N. Allocati, L. Cellini, A. Aceto, T. Iezzi, S. Angelucci, I. Robuffo, C. Di Ilio* 191

Palmitoylation but not the extreme amino-terminus of $G_{q\alpha}$ is required for coupling to the NK2 receptor (FEBS 14714) *M.D. Edgerton, C. Chabert, A. Chollet, S. Arkinstall* 195

Affinity modification of human immunodeficiency virus reverse transcriptase and DNA template by photoreactive dCTP analogs (FEBS 14723) *S.V. Doronin, M.I. Dobrikov, M. Buckle, P. Roux, H. Buc, O.I. Lavrik* 200

CCK-JMV-180 acts as an antagonist of the CCK_A receptor in the human IMR-32 neuroblastoma cell line (FEBS 14727) *P. Schaeffer, V. Prabonnaud, M. Roux, D. Gully, J.M. Herbert* 203

The three dimensional structure of rat cytokine CINC/Gro in solution by homonuclear 3D NMR (FEBS 14694) *H. Hanzawa, H. Haruyama, K. Watanabe, S. Tsurufuji* 207

Expression of two variants of the human μ opioid receptor mRNA in SK-N-SH cells and human brain (FEBS 14742) *L.A. Bare, E. Mansson, D. Yang* 213

Carbohydrate induced modulation of cell membrane: I. Interaction of sialic acid with peripheral blood lymphocytes: a spin label study (FEBS 14729) *K. Hajela, R. Kayestha, P. Kumar G.* 217

Synergistic activation of intercellular adhesion molecule 1 (ICAM-1) by TNF-α and IFN-γ is mediated by p65/p50 and p65/c-Rel and interferon-responsive factor Stat1α (p91) that can be activated by both IFN-γ and IFN-α (FEBS 14743) *A. Jahnke, J.P. Johnson* 220

Kinetic analyses of DNA-linked ribonucleases H with different sizes of DNA (FEBS 14744) *E. Kanaya, Y. Uchiyama, E. Ohtsuka, Y. Ueno, M. Ikehara, S. Kanaya* 227

Regulatory effects of galactose on galactose-1-phosphate uridyltransferase activity on human hepatoblastoma HepG2 cells (FEBS 14746) *A. Davit-Spraul, M.L. Pourci, K.H. Ng, T. Soni, A. Lemonnier* 232

Cartilage oligomeric matrix protein (COMP) is an abundant component of tendon (FEBS 14747) *P. DiCesare, N. Hauser, D. Lehman, S. Pasumarti, M. Paulsson* 237

Book Reviews (FEBS 14715) 241

Booklist no. 121 244

Research Letters

A leucine motif in the amino acid sequence of subunit 9 of the mitochondrial ATPase, and other hydrophobic membrane proteins, that is highly conserved by editing (FEBS 14737) *Yu. M. Konstantinov, I.M. Møller* 245

Effect of single-point mutations $Phe^{41} \rightarrow His$ and $Phe^{143} \rightarrow Glu$ on folding and catalytic properties of recombinant horseradish peroxidase expressed in *E. coli* (FEBS 14738) *I.G. Gazaryan, V.V. Doseeva, A.G. Galkin, V.I. Tishkov* 248

Thermostability of the barnase–barstar complex (FEBS 14740) *A.A. Makarov, I.I. Protasevich, V.M. Lobachov, M.P. Kirpichnikov, G.I. Yakovlev, R.M. Gilli, C.M. Briand, R.W. Hartley* 251

Transforming growth factor β_2 stimulates acute and chronic activation of the mitogen-activated protein kinase cascade in rat renal mesangial cells (FEBS 14745) *A. Huwiler, J. Pfeilschifter* 255

Two novel HMW MAP2 variants with four microtubule-binding repeats and different projection domains (FEBS 14741) *A. Langkopf, J. Guilleminot, J. Nunez* 259

The human MDR3 P-glycoprotein promotes translocation of phosphatidylcholine through the plasma membrane of fibroblasts from transgenic mice (FEBS 14748) *A.J. Smith, J.L.P.M. Timmermans-Hereijgers, B. Roelofsen, K.W.A. Wirtz, W.J. van Blitterswijk, J.J.M. Smit, A.H. Schinkel, P. Borst* 263

Specific amino acid substitutions in human collagenase cause decreased autoproteolysis and reveal a requirement for a second zinc atom for catalytic activity (FEBS 14749) *D.H. Williams, E.J. Murray* 267

Enhancing effect of the 3′-untranslated region of tobacco mosaic virus RNA on protein synthesis in vitro (FEBS 14739) *V.V. Zeyenko, L.A. Ryabova, D.R. Gallie, A.S. Spirin* 271

Increased β-amyloid release and levels of amyloid precursor protein (APP) in fibroblast cell lines from family members with the Swedish Alzheimer's disease APP670/671 mutation (FEBS 14750) *J.A. Johnston, R.F. Cowburn, S. Norgren, B. Wiehager, N. Venizelos, B. Winblad, C. Vigo-Pelfrey, D. Schenk, L. Lannfelt, C. O'Neill* 274

Very low density lipoprotein receptor from mammary gland and mammary epithelial cell lines binds and mediates endocytosis of M_r 40,000 receptor associated protein (FEBS 14751) *A.C.W. Simonsen, C.W. Heegaard, L.K. Rasmussen, L. Ellgaard, L. Kjøller, A. Christensen, M. Etzerodt, P.A. Andreasen* 279

The pathway of CO binding to cytochrome *c* oxidase: Can the gateway be closed? (FEBS 14753) *B.C. Hill* 284

Interleukin-1β dissociates β-amyloid precursor protein and β-amyloid peptide secretion (FEBS 14755) *J.P. Vasilakos, R.T. Carroll, M.R. Emmerling, P.D. Doyle, R.E. Davis, K.S. Kim, B.D. Shivers* 289

Analysis of the conformation and stability of rat TTF-1 homeodomain by circular dichroism (FEBS 14758) *G. Damante, G. Tell, A. Leonardi, F. Fogolari, N. Bortolotti, R. Di Lauro, S. Formisano* 293

Oxidative degradation of non-phenolic lignin during lipid peroxidation by fungal manganese peroxidase (FEBS 14759) *W. Bao, Y. Fukushima, K.A. Jensen Jr., M.A. Moen, K.E. Hammel* 297

A subtype of the metabotropic glutamate receptor family in the olfactory system of Atlantic salmon (FEBS 14762) *J. Pang, Y.H. Lo, J.M. Chandlee, D.E. Rhoads* 301

Mutational analysis of the active site of RNase of *Bacillus intermedius* (BINASE) (FEBS 14763) *G.I. Yakovlev, G.P. Moiseyev, N.K. Struminskaya, O.A. Borzykh, L.V. Kipenskaya, L.V. Znamenskaya, I.B. Leschinskaya, E.B. Chernokalskaya, R.W. Hartley* 305

Isolation of human NuMA protein (FEBS 14764) *T. Kempf, F.R. Bischoff, I. Kalies, H. Ponstingl* 307

The existence of a growth-specific DNA binding factor for the promoter region of mouse ST2 gene (FEBS 14765) *S. Tominaga, M. Kato-Yamazaki, K. Yanagisawa, K. Kawakami, T. Tetsuka* 311

Botulinum C3 exoenzyme blocks the tyrosine phosphorylation of $p125^{FAK}$ and paxillin induced by bombesin and endothelin (FEBS 14761) *S. Rankin, N. Morii, S. Narumiya, E. Rozengurt* 315

Affinity purification of *Hydra* glutathione binding proteins (FEBS 14767) *S.L. Bellis, D.C. Laux, D.E. Rhoads* 320

Author index to volume 354 325

Contents to volume 354 329